



## FH<sub>1</sub>W-S

## iOS Programmierung

(mit Swift)

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#FHWSSwift

## Agenda

- 1. Introduction Organisatorisches
- 2. First iOS-Project Hello World, First iOS-Project Still Hello World (now with Code 👄)
- 3. Swift, Wait!, What about Objective-C?, Why Swift?
- 4. A (not so) Quick Tour
- 5. Documentation
- 6. The basics iOS Architecture & more
- 7. User Interfaces View Controller, Auto Layout & Size Classes
- 8. Storyboard & Segues
- 9. Tables & NavigationController
- 10. TabBarController
- 11. Notifications
- 12. PickerViews
- 13. Touches, Gestures, 3D Touch, Peek & Pop
- 14. ScrollView & StackViews
- 15. Networking JSON & Dependency Managers
- 16. WebKit
- 17. Maps
- 18. Storage & Data persistency NSUserDefaults, NSKeyedArchiver & Core Data
- 19. **ObjC**

## User Interfaces Picker View & NSDateFormatter

## Pickers (1/3)

UIDatePicker UIPickerView

Date Picke

Mountain View
Sunnyvale
Cupertino
Santa Clara
San Jose

## Pickers (2/3)

#### **UIDatePicker**

Date Picker

December	30	1995	
January	31	1996	
February	1	1997	
March	2	1998	
April	3	1999	
May	4	2000	
June	5	2001	

@IBAction

**UIPickerView** 

Mountain View Sunnyvale **Cupertino** Santa Clara San Jose

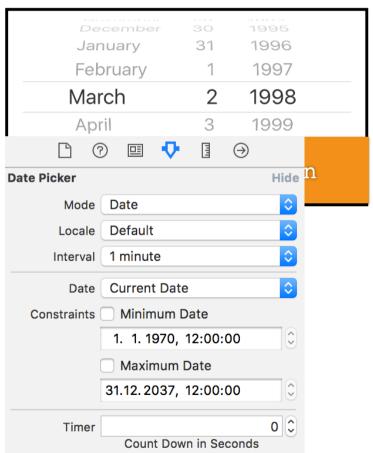
Informatik Mathe Physik

UIPickerViewDataSource, UIPickerViewDelegate

## Pickers (3/3)

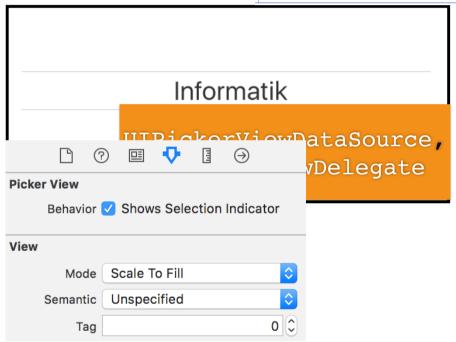
#### **UIDatePicker**





#### **UIPickerView**





## UIPickerView - DataSource

```
func numberOfComponentsInPickerView(
    pickerView: UIPickerView
    ) -> Int {
    return 1
}

func pickerView(
    pickerView: UIPickerView,
    numberOfRowsInComponent component: Int
    ) -> Int {
    return courses.count
}
```

## UIPickerView - Delegate

```
func pickerView(
    pickerView: UIPickerView,
    titleForRow row: Int,
    forComponent component: Int
    ) -> String? {
    return courses[row]
func pickerView(
     pickerView: UIPickerView,
    didSelectRow row: Int,
    inComponent component: Int) {
    let course = courses[row]
    student.fach = course
    fachLbl.text = course
```

## Common Patterns - Delegate

ViewController (delegate)

UIPickerView

Create new UIPickerView
Set ViewController as UIPickerViewDelegate

func pickerView(numberOfRowsInComponentnent)

return courses.count

func pickerView(titleForRow row: Int)

return courses[row]

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func pickerView(titleForRow row: Int)

what is in cell 1?

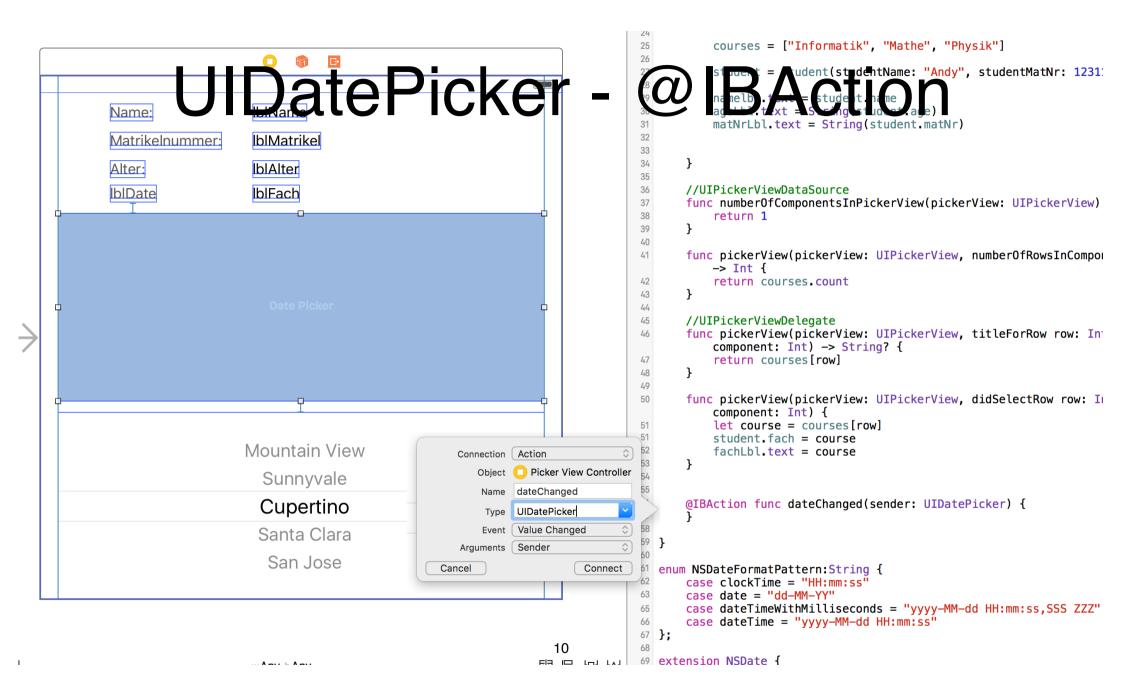
func pickerView(titleForRow row: Int)

Func pickerView(titleForRow row: Int)

what is in cell 2?

Mathe
Physik

Source: Apple: Protocols



### NSDateFormatter

```
lblDate.text = sender.date.formattedDate()
extension NSDate {
    func formattedStringForDate(format: String) -> String {
        let formatter = NSDateFormatter()
        let locale = NSLocale.currentLocale(); //de DE
        formatter.locale = locale
        formatter.dateFormat = format
        return formatter.stringFromDate(self)
    func formattedClockTime() -> String {
        return formattedStringForDate("HH:mm:ss")
    func formattedDate() -> String {
        return formattedStringForDate("dd-MM-YY")
    func formattedDateTime() -> String {
        return formattedStringForDate("yyyy-MM-dd HH:mm:ss")
```

## More User Interfaces

# Demo Apple's UlKit Catalog (iOS): Creating and Customizing UlKit Controls

https://developer.apple.com/library/ios/samplecode/UICatalog/Introduction/Intro.html